

ABSTRACT OF THE DISCLOSURE

It is an object of this invention to appropriately interpolate an image signal having a frequency close to the Nyquist frequency of an image sensing device. To achieve this object, a signal processing apparatus includes a first interpolation circuit for performing interpolation in a pixel position as an object of interpolation on the basis of pixel data in first and second directions, a second interpolation circuit for performing interpolation in a pixel position as an object of interpolation on the basis of pixel data in the first direction, a third interpolation circuit for performing interpolation in a pixel position as an object of interpolation on the basis of pixel data in the second direction, a determination circuit for determining correlations in the first and second directions with respect to a signal at a pixel position as an object of interpolation, a selection circuit for selecting interpolated data based on an output from one of the second and third interpolation circuits, on the basis of the determination result from the determination circuit, and an output unit for outputting an interpolated signal on the basis of interpolated data, which is based on an output from the first interpolation circuit, and the output interpolated data from the selection circuit.